QC ABSTRACT

NAME OF WORK: Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
4	TACK COAT	Rate of spread	One Test		1	1

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Bengaluru Mahanagara Palike

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2022-06-13-14** **Date: 25-05-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22

Agency : Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/43/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-05-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 23-05-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	302	302	2.7	97.3	95-100
22.4	2259	2561	23.3	76.7	60-80
11.2	2179	4740	43.1	56.9	40-60
4.75	2251	6991	63.6	36.4	25-40
2.36	1621	8612	78.3	21.7	15-30
0.6	623	9235	84.0	16.0	8-22
0.075	1295	10530	95.7	4.3	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-06-13-14**	**Date: 25-05-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22	
Agency	:	Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.	
Customer Reference	:	BBMP/EE/BTP/WO/43/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-05-2022	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	23-05-2022	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	75.0	73.8
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	224.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.6
5	Aggregate impact value	(B/A)*100	25.0	24.6
6	Aggregate impact value (Mean of two tests)	Pecentage	24.8	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-06-13-14** **Date: 25-05-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22
Agency	:	Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/43/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-05-2022
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	23-05-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.5%	
Combined Flakiness and Elongation Index for WMM	23.6%	

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Bruhath Bengaluru Mahanagara Palike

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2022-06-13-14** **Date: 03-06-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22

Agency : Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/43/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-06-2022

Type of Mix : BC-Plant (Bituminous Concrete)

Date of Test : 01-06-2022

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	72	72	1.4	98.6	90-100
9.5	801	873	17.5	82.5	70-88
4.75	855	1728	34.6	65.4	53-71
2.36	578	2306	46.1	53.9	42-58
1.18	502	2808	56.2	43.8	34-48
0.6	499	3307	66.1	33.9	26-38
0.3	535	3842	76.8	23.2	18-28
0.15	472	4314	86.3	13.7	12-20
0.075	385	4699	94.0	6.0	4-10
PAN	301	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-06-13-14**	**Date: 04-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22	
Agency	:	Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.	
Customer Reference	:	BBMP/EE/BTP/WO/43/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-06-2022	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of Test	:	01-06-2022	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.5	Minimum Retained Coating 95%
2	99.0	1.0		
3	98.5	1.5		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : **CP-RW-2022-06-13-14** **Date: 04-06-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22

Agency : Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/43/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-06-2022

Type of Mix : BC (Bituminous Concrete)

Date of Test : 01-06-2022

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.1	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	10.3		
Strength	Aggregate Impact Value	20.7	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.64	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.18	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2022-06-13-14** **Date: 04-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22
Agency	:	Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/43/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-2022
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	01-06-2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.28	11.54	10KN(min)
2	Marshal flow at 60°C, mm	3.53	3.52	2-4
3	Percent air Voids	4.83	4.81	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.32	14.14	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.46	72.49	65-75
6	Density, g/cc	2.26	2.27	–

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-06-13-14** **Date: 28-05-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22
Agency	:	Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/43/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-05-2022
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	26-05-2022

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**64**	60 to 70
2	Softening Point, °C	**51.2**	Min. 40°C
3	Ductility, cm	**98**	Min. 75cm
4	Flash point, °C	**245**	Min. 220°C
	Fire point, °C	**272**	

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2022-06-13-14** **Date: 11-06-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22

Agency : Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/43/2022-23

Source of Sample : Sample supplied by Agency

Date of Receipt : 10-06-2022

Type of Mix : BC (Bituminous Concrete)

Date of Test : 10-06-2022

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	469	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.20	6.19
4	Average percentage	%	6.2	

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Lab ID : **CP-RW-2022-06-13-14** **Date: 11-06-2022**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	10	10	2.1	97.9	90-100
9.5	52	62	13.2	86.8	70-88
4.75	113	175	37.3	62.7	53-71
2.36	85	260	55.4	44.6	42-58
1.18	32	292	62.3	37.7	34-48
0.6	15	307	65.5	34.5	26-38
0.3	44	351	74.8	25.2	18-28
0.15	48	399	85.1	14.9	12-20
0.075	39	438	93.4	6.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	11	11	2.3	97.7	90-100
9.5	53	64	13.6	86.4	70-88
4.75	108	172	36.6	63.4	53-71
2.36	82	254	54.0	46.0	42-58
1.18	38	292	62.1	37.9	34-48
0.6	25	317	67.4	32.6	26-38
0.3	49	366	77.9	22.1	18-28
0.15	41	407	86.6	13.4	12-20
0.075	35	442	94.0	6.0	4-10

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Bruhath Bengaluru Mahanagara Palike

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2022-06-13-14** **Date: 09-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22
Agency	:	Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/43/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-2022
Type of Mix	:	Tack coat
Date of Test	:	08-06-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.805	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.025	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.278	0.267
7	Average	Kg/sq.m	0.272	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2022-06-13-14** **Date: 09-06-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Filling of pot holes in Ward No.09,(Vidyaranyapura). For the year 2021-22

Agency : Sri.Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapura, Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/43/2022-23

Source of Sample : Sample supplied by Agency

Date of Receipt : 08-06-2022

Type of Mix : BC (Bituminous Concrete)

Date of Test : 08-06-2022

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	468	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.40	6.00
4	Average percentage	%	6.2	

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Lab ID : **CP-RW-2022-06-13-14** **Date: 09-06-2022**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 468

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	70	78	16.7	83.3	70-88
4.75	112	190	40.6	59.4	53-71
2.36	68	258	55.1	44.9	42-58
1.18	29	287	61.3	38.7	34-48
0.6	10	297	63.5	36.5	26-38
0.3	42	339	72.4	27.6	18-28
0.15	45	384	82.1	17.9	12-20
0.075	44	428	91.5	8.5	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	72	79	16.8	83.2	70-88
4.75	110	189	40.2	59.8	53-71
2.36	72	261	55.5	44.5	42-58
1.18	31	292	62.1	37.9	34-48
0.6	15	307	65.3	34.7	26-38
0.3	44	351	74.7	25.3	18-28
0.15	42	393	83.6	16.4	12-20
0.075	48	441	93.8	6.2	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R.RUDRAPRASAD
Authorized Signatory
Technical Manager

End of Report

ASSISTANT EXECUTIVE ENGINEER
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